

name: loay fahmi koshak  
id: 1740551

## source code

```
import java.util.Scanner;

public class Menu {
    static Scanner scan = new Scanner(System.in);
    public static void main(String[] args) {
        chose();
    }
    public static void chose() {
        try {
            System.out.println("----- Welcome in LockMe -----\\n\\n");
            System.out.println("select what operation you need:");
            System.out.println("1- List Files");
            System.out.println("2- File Manipulating");
            int num = scan.nextInt();
            if (num == 1) {
                List_Files obj2 = new List_Files();
                obj2.List();
            } else if (num == 2) {
                File_Manipulating obj = new File_Manipulating();
            } else {
                System.out.println("something went wrong! please try again\\n\\n");
                chose();
            }
        } catch (Exception ex) {
            System.out.println("something went wrong! please try again\\n\\n");
            chose();
        }
    }
}

import java.io.File;
import java.util.Scanner;

public class List_Files {
    Scanner scan = new Scanner(System.in);
    public void List() {
        try {
            File file = new File("C:/PR");
            File[] list = file.listFiles();
            //Prints the files in file name ascending order
            for (int i = 0; i < list.length; i++) {
                if (list[i].isFile()) {
                    System.out.println(list[i].getName());
                }
            }
        } catch (Exception ex) {
            System.out.println("something went wrong ! please try again\\n\\n");
        } finally {
            Menu obj = new Menu();
            obj.chose();
        }
    }
}
```

```

import java.io.File;
import java.util.Scanner;

public class File_Manipulating {
    Scanner scan = new Scanner(System.in);
    public File_Manipulating() {
        System.out.println("choose a method you want:");
        System.out.println("1- ADD");
        System.out.println("2- Delete");
        System.out.println("3- Search");
        System.out.println("4- Back To main menu");
        System.out.println("5- Exit");
        Home(scan.nextInt());
    }

    public void Home(int choice) {
        try {
            if(choice>5 ||choice<1) {
            }else {
                switch(choice) {
                    case 1:
                        Add();
                        break;
                    case 2 :
                        Delete();
                        break;
                    case 3:
                        Search();
                        break;
                    case 4 :
                        GetBackToMainMenu();
                        break;
                    case 5 :
                        Exit();
                }
            }
        }catch(Exception ex) {
            System.out.println("something went wrong ! please try again\n\n");
            File_Manipulating obj = new File_Manipulating();
        }
    }
}

```

```

public void Add() {
    try {
        System.out.println("Enter file name:");
        String name = scan.next();
        String path = "C:"+File.separator+"PR"+File.separator+name+".txt";
        File file = new File(path);
        file.getParentFile().mkdirs();
        file.createNewFile();
        System.out.println("\n file created ! \n\n");
    } catch (Exception ex) {
        System.out.println("\n\n"+ex.getMessage().toString());
    } finally {
        File_Manipulating obj = new File_Manipulating();
    }
}

public void Delete() {
    try {
        System.out.println("Enter file name:\n");
        String name = scan.next();
        String path = "C:"+File.separator+"PR"+File.separator+name+".txt";
        File file = new File(path);
        file.getParentFile().mkdirs();
        if(file.delete())
            System.out.println(file.getName()+" deleted !\n");
        else
            System.out.println("\nfile not found ! \n");
    } catch (Exception ex) {
        System.out.println("\n\n"+ex.getMessage().toString());
    } finally {
        File_Manipulating obj = new File_Manipulating();
    }
}

public void Search() {
    try {
        System.out.println("Enter file name:\n");
        String name = scan.next();
        String path = "C:"+File.separator+"PR"+File.separator+name+".txt";
        File file = new File(path);
        file.getParentFile().mkdirs();
        if(file.exists())
            System.out.println(file.getName()+" founded ! \n");
        else
            System.out.println("file not found! ");
    } catch (Exception ex) {
        System.out.println("\n\n"+ex.getMessage().toString());
    } finally {
        File_Manipulating obj = new File_Manipulating();
    }
}

public void Exit() {
    System.out.println("are you sure? yes or no \n");
    String answer = scan.next();
    if(answer.equalsIgnoreCase("no")) {
        File_Manipulating obj = new File_Manipulating();
    } else if(answer.equalsIgnoreCase("yes")) {
        System.out.println("\n\ngood bye !");
    } else {
        File_Manipulating obj = new File_Manipulating();
    }
}

public void GetBackToMainMenu() {
    Menu obj = new Menu();
    obj.chose();
}
}

```